



wavefront grating interferometer shearing

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S Yokozeiki, T Suzuki - aoot.osa.org

... the plane **wavefront**. This is one of the properties of the **shearing interferometer**.If the x axis is taken in the direction of the slit of the **grating**, we may ...[Cited by 44](#) - [Web Search](#)**Double frequency grating lateral shear interferometer - group of 7 »**

JC Wyant - aoot.osa.org

... **interferometer** is basically a **grating interferometer** and is ... three advantages over a Ronchi- type **interferometer**. ... Gaussian reference spherical **wavefront** for the ...[Cited by 36](#) - [Web Search](#)**A Lateral Wavefront Shearing Interferometer with Variable Shear - group of 4 »**

A Lohmann, O Bryngdahl - ao.osa.org

... A lateral **wavefront shearing interferometer** is presented ... Each diffraction order of the first **grating** forms an image of the object in an intermediate image plane ...[Cited by 13](#) - [Web Search](#)**White light extended source shearing interferometer - group of 6 »**

JC Wyant - aoot.osa.org

... of the wavelength, if the **grating** placed in ... In conclusion, the **shearing interferometer** de- scribed in this paper ... eliminated if the only **wavefront** aberration is ...[Cited by 14](#) - [Web Search](#) - [BL Direct](#)**Wave-front analysis with high accuracy by use of a double-grating lateral shearing interferometer - group of 4 »**

GWR Leibbrandt, G Harbers, PJ Kunst - APPLIED OPTICS, 1996 - ao.osa.org

Page 1. Wave-front analysis with high accuracy by use of a double-**grating** lateral**shearing interferometer** GWR Leibbrandt, G. Harbers, and PJ Kunst ...[Cited by 19](#) - [Web Search](#) - [BL Direct](#)**Evaluation of large aberrations using a lateral-shear interferometer having variable shear - group of 7 »**

MP RIMMER, JC WYANT - aoot.osa.org

... The combination LSI-LUPI **interferometer** de- signed and ... one **grating** with respect to the second **grating**. ... analytic techniques for determining **wavefront** shape from ...[Cited by 37](#) - [Web Search](#)**Reflective grating interferometer: a folded reversal wave-front interferometer - group of 3 »**

S De Nicola, P Ferraro, A Finizio, G Pierattini - APPLIED OPTICS, 1999 - ao.osa.org

... uration in respect to the tested **wavefront**; in this ... The **interferometer** is simple to align and is made ... of two components: a mirror and a reflective **grating**. ...[Cited by 6](#) - [Web Search](#) - [BL Direct](#)**Heuristic Explanation of Grating Shearing Interferometry Using Incoherent Illumination - group of 3 »**

K Paturski - Journal of Modern Optics, 1984 - Taylor & Francis

... images formed by a spherical **wavefront**. ... performance of incoherent-**grating shearing** interferometers provides a ... of various **interferometer** configurations familiar ...[Cited by 9](#) - [Web Search](#)**Analysis of lateral shearing interferograms by use of Zernike polynomials - group of 4 »**



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P Naulleau, K Goldberg, E Anderson, P Batson, P ... - osti.gov

... is a common-path, system-level **interferometer** that relies ... A diffraction **grating** is used as the beam ... been demonstrated to have a reference **wavefront** accuracy of ...Cited by 9 - [View as HTML](#) - [Web Search](#)

Focusing errors in a collimating lens or mirror- Use of a moire technique - group of 5 »

, D MALACARA - aoot.osa.org

... the plane parallel plate shear **interferometer**. 12 However ... spherical, we may consider the **wavefront** di- vided ... Fourier series of the original **grating** profile that ...Cited by 16 - [Web Search](#)

Development of a coherent gradient-sensing tomographic **interferometer** for three-dimensional ... - group of 5 »

D Mishra, SL Wong, JP Longtin, RP Singh, V Prasad - Optics Communications, 2002 - mechanics.eng.sunysb.edu

... of the incident **wavefront** along the **grating** direction ... the shear produced in the diffracted **wavefront** (Fig ... medium ob- tained from the CGS **interferometer** setup are ...Cited by 2 - [View as HTML](#) - [Web Search](#)

Semiconductor wafer and technical flat planeness testing **interferometer** - group of 5 »

J SCHWIDER, R BUROW, KE ELSSNER, J GRZANNA, R ... - Applied Optics, 1986 - ao.osa.org

... dis- tortion due to the **projection** under nearly ... of observation point P from edge 0;N 1 , ... N, **wavefront** ... can be combined with a moire **grating interferometer**. ...Cited by 7 - [Web Search](#)

X-ray phase imaging with a **grating interferometer** - group of 4 »

T Weitkamp, A Diaz, C David, F Pfeiffer, M ... - Phys. Lett, 1999 - opticsexpress.org

... Weitkamp, "XWFP: An X-ray **wavefront** propagation software ... behind the beam-splitter **grating** is, over a ... independent of wavelength, the **interferometer** is largely ...Cited by 1 - [Web Search](#)

Modified Talbot **Interferometer** for Fabrication of Fiber-Optic **Grating** Filter Over a Wide Range of ... - group of 6 »

Y Wang, J Grant, A Sharma, G Myers - Journal of Lightwave Technology, 2001 - ieeexplore.ieee.org

... a bigger curvature can be introduced on the **wavefront** without the ... Analysis of a0/1 order Talbot **interferometer** for 193 nm laser **grating** formation," Opt. ...Cited by 1 - [Web Search](#) - [BL Direct](#)

Computer modelling of a **wavefront** diffracted at a concave **grating** - group of 3 »

EA Sokolova, V Kruizinga, D De Bruijn, M ... - jot.osa.org

... 4. The plane **wavefront** from the **interferometer** passes through the **interferometer** lens, which focuses it at the sag- ittal focus of the **grating**. ...[Web Search](#) - [BL Direct](#)

EUV Interferometry of a Four-Mirror Ring-Field EUV Optical System - group of 6 »

KA Goldberg, P Naulleau, PJ Batson, P Denham, EH ... - eecs.berkeley.edu

... The PS / PDI **interferometer** was constructed to evaluate the system **wavefront** at arbitrary ... A **grating** beamsplitter placed between the object pinhole and the ...Cited by 11 - [View as HTML](#) - [Web Search](#)



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KA Goldberg, P Naulleau, PJ Batson, P Denham, EH ... - eecs.berkeley.edu

... The PS / PDI **interferometer** was constructed to evaluate the system **wavefront** at arbitrary ... A **grating** beamsplitter placed between the object pinhole and the ...Cited by 11 - [View as HTML](#) - [Web Search](#)

Adding static printing capabilities to the **EUV** phase-shifting point diffraction **interferometer** - group of 6 »

P Naulleau, K Goldberg, E Anderson, P Batson, P ... - osti.gov

... is a common-path, system-level **interferometer** that relies ... A diffraction **grating** is used as the beam ... been demonstrated to have a reference **wavefront** accuracy of ...Cited by 9 - [View as HTML](#) - [Web Search](#)

Characterization of an **EUV** Schwarzschild objective using phase-shifting point diffraction ... - group of 4 »

KA Goldberg, E Tejnil, SH Lee, H Meddecki, DT ... - goldberg.lbl.gov

... of a spatially coherent **wavefront** propagated through ... undulator beamline, containing a **grating** monochromator followed ... from the undulator to the **interferometer**. ...Cited by 18 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Characterization of the accuracy of **EUV** phase-shifting point diffraction interferometry - group of 3 »

P Naulleau, KA Goldberg, S Lee, C Chang, C ... - goldberg.lbl.gov

... **grating** ... of the **interferometer** and the absence of re-imaging optics ... These two effects limit how accurately an uncalibrated PS/PDI can measure the **wavefront** of a ...Cited by 16 - [View as HTML](#) - [Web Search](#)

EUV Interferometry of the 0.3 NA MET Optic - group of 7 »

KA Goldberg, P Naulleau, P Denham, SB Rekawa, K ... - Proceedings of SPIE, 2003 - eecs.berkeley.edu

... is designed to perform **wavefront** measurements at ... the optical components of the **interferometer** are the ... pinhole masks, a coarse transmission **grating** beam-splitter ...Cited by 3 - [View as HTML](#) - [Web Search](#)

Transmission phase gratings for **EUV** interferometry - group of 9 »

PP Naulleau, CH Cho, EM Gullikson, J Bokor - dx.doi.org

... With a demonstrated reference-**wavefront** accuracy of ... our knowledge, the highest-accuracy**EUV interferometer** available ... limitations imparted by the **grating** used as ...Cited by 2 - [Web Search](#) - [BL Direct](#)

Extreme ultraviolet interferometry: measuring and aligning an **EUV** four-mirror ring-field optical ... - group of 4 »

KA Goldberg, P Naulleau, P Batson, P Denham, EH ... - www-als.lbl.gov

... The PS/PDI is a common-path **interferometer** that incorporates pinhole ... **grating** and detector stage ... System **wavefront** measured near the central field point ...Cited by 1 - [View as HTML](#) - [Web Search](#)

Extreme ultraviolet interferometry: At-wavelength testing of optics for lithography - group of 4 »

KA Goldberg, P Naulleau, C Bresloff, P Batson, P ... - als.lbl.gov

... **grating** object pinhole ... **EUV wavefront** phasemap Figure 1. The extreme ultraviolet phase-shifting point diffraction **interferometer** (**EUV PS/PDI**) is designed to ...Cited by 1 - [View as HTML](#) - [Web Search](#)

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L1	740950	interfer\$	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:47
L2	119133	diffract\$	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:47
L3	58701	grating	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:47
L4	20722	wavefront or wave-front or wave front	US-PGPUB; USPAT	ADJ	ON	2006/02/07 11:05
L5	197815	ultraviolet or euv	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:47
L6	438	projection near3 (optic\$ lens)	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:48
L7	34988	projection near3 (optic\$ or lens)	US-PGPUB; USPAT	ADJ	ON	2006/02/07 11:04
L8	70070	shearing	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:48
L9	1267	2 same 3 same 4	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:49
L10	0	8 and 9 and 5 and 6	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:49
L11	37	8 and 9 and 5 and 7	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:54
L12	45	8 and 9 and 5	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:53
L13	8	12 not 11	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:53
L14	49	8 and 9 and 7	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:54
L15	12	14 not 11	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:55
L16	213	1 and 3 and 4 and 8	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:56
L17	136	16 and "356"/\$.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/02/07 11:02
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L19	77	16 not 17	US-PGPUB; USPAT	ADJ	ON	2006/02/07 11:02
L20	29281	projection near3 (optic\$ or lens)	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/07 11:04
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L22	64595	diffract\$	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/07 11:05
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L26	35951	shearing	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/07 11:06
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L6	23374	projection near3 optic\$	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:05
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L8	74	1 and 7 and 5 and 6	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:35
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L13	980	1 and 7	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:35
L14	504	1 same 7	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:35
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L19	167	15 not (16 or 17 or 18)	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:47
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L21	102	20 and "356"/\$.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:52
L22	20	20 and "250"/\$.ccls. not 21	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:53

L23	10	20 and "355"/\$.ccls. not (21 or 22)	US-PGPUB; USPAT	ADJ	ON	2006/02/07 09:54
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L25	287	7 not (9 or 11 or 15 or 20)	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:01
L26	20	POULTNEY-SHERMAN or POULTNEY-SHERMAN-K	US-PGPUB; USPAT	ADJ	ON	2006/02/07 10:02
L27	222165	interfer\$	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/07 10:04
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L36	12	27 and 33 and 32	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/07 10:09
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